

Rec'd PCT/PTO 19 JAN 2005

PATENT COOPERATION TREATY

PCT

REC'D 22 SEP 2004

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Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PD0207042		FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/CN02/00506		International filing date (day/month/year) 19 July 2002 (19.07.02)		Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC B30B11/28 B01J2/20 C10L5/44 C12P7/08				
Applicant Che, Zhanbin				
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input checked="" type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>				
Date of submission of the demand 26 August 2003		Date of completion of this report 24 August 2004		
Name and mailing address of the IPEA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China		Authorized officer Ye, Fan		
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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/CN02/00506

## Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☒ the international application as originally filed/furnished

☐ the description:

pages \_\_\_\_\_ as originally filed/furnished  
 pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_ as originally filed/furnished  
 pages \* \_\_\_\_\_ as amended (together with any statement) under Article 19  
 pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_ as originally filed/furnished  
 pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/CN02/00506

**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement:

Novelty (N)	Claims <u>1-75</u>	YES
	Claims _____	NO
Inventive step (IS)	Claims <u>1-75</u>	YES
	Claims _____	NO
Industrial applicability (IA)	Claims <u>1-75</u>	YES
	Claims _____	NO

## 2. Citations and explanations (Rule 70.7)

### Novelty and Inventive Step

The documents cited in the international search report disclose processes and apparatuses for shaping lossen material. However, none of them teaches such a processe for shaping lossen material and the apparatus therof as described in claims 1 and 37 that comprise the following features,

After being grind, rubbed and stretched by the pressing head and the squeezing surface which move relatively to each other, the granular vegetable material is carried to the narrow end of the wedged-shaped chamber so that it is squeezed into the cavity of molding die.

The product obtained by the present process and apparatus possesses high jointing intensity without using any chemical mucus.

Therefore, claims 1 and 37 meets the rquirements of Article 33(2)-(4) PCT.

Claims 2-36 and 38-75 are dependant claims associated with claim 1. They also meet the requirements of Art. 33(2)-(4) PCT

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

PCT/CN02/00506

**Box No. VII Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:

Claims 33, 35, 36, 72 and 75 refer to two or more preceding claims that are multiple dependent claims. Therefore, they are not in conformity with the provisions of Rule 6.2 (a) PCT.

## 专利合作条约

## PCT

专利性国际初步报告

(PCT 第II章)

(PCT 36 和细则 70)

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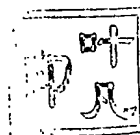
申请人或代理人的档案号 PD0207042	关于后续行为 参见 PCT/IPEA/416 表	
国际申请号 PCT/CN02/00506	国际申请日(日/月/年) 19.7 月 2002 (19.07.02)	优先权日(日/月/年)
国际专利分类(IPC)或者国家分类和 IPC 两种分类 B30B11/28 B01J2/20 C10L5/44 C12P7/08		
申请人 车战斌		

1. 本报告是国际初步审查单位根据条约 35 做出的国际初步审查报告, 并依照条约 36 将其传送给申请人。
2. 本报告共计 4 页, 包括扉页。
3. ☐ 本报告还有附件,
- a. ☐ (传送给国际局和申请人) 共计\_\_页, 包含
- ☐ 修改后的并且作为本报告基础的说明书修改页、权利要求书修改页和/或附图修改页, 和/对本国际初步审查单位所做出的更正页(见 PCT 细则 70.16 和行政规程 607)。
- ☐ 国际初步审查单位认为修改超出原始公开范围的废除页, 参见第 I 栏第 4 项和补充栏。
- b. ☐ (传送给国际局) 共计 (指明电子载体的类型和数量) \_\_\_\_\_, 包含有在与序列表有关的补充栏中
- 指明的计算机可读形式的序列表和/或与其相关的表格。(行政规程 802)

3. 本报告包括关于下列各项的内容:

- I ☒ 报告的基础
- II ☐ 优先权
- III ☐ 不做出关于新颖性、创造性和工业实用性的意见
- IV ☐ 缺乏发明的单一性
- V ☒ 按条约 35(2)关于新颖性、创造性或工业实用性的推断性意见; 支持这种意见的引证和解释
- VI ☐ 引用的某些文件
- VII ☒ 国际申请中的某些缺陷
- VIII ☐ 对国际申请的某些意见

提交要求书的日期 26.8 月 2003 (26.08.03)	完成本报告的日期 24.8 月 2004 (24.08.04)
中华人民共和国国际知识产权局 IPEA/CN 中国北京市海淀区西土城路 6 号(100088)	受权官员 叶凡
传真号: (86-10) 62084904	电话号码 (86-10): 62085496



I. 报告的基础

1. 关于所使用的语言，除本项下另有说明外，本书面意见基于的语言为提交本国际申请时所使用的语言。

☐ 本书面意见基于原始语言的使用后述语言之译文 \_\_\_\_\_，

这种语言是

☐ 为了国际检索而提交的译文所使用的语言（细则 12.3 和 23.1（b））。

☐ 为了国际申请的公布而提交的译文所使用的语言（细则 12.4）。

☐ 为了国际初步审查而提交的译文所使用的语言（细则 55.2 和/或 55.3）。

2. 关于国际申请中各个部分，本报告基于（申请人为答复受理局根据条约 14 所发通知而提交的替换页，在本报告中视为“原始提交”的文件，不作为本报告的附件）

☒ 原始提交的国际申请。

☐ 说明书， 第 \_\_\_\_\_ 页 原始提交的，  
第 \_\_\_\_\_ 页 初审单位收到的，  
第 \_\_\_\_\_ 页 初审单位收到的。

☐ 权利要求， 第 \_\_\_\_\_ 页， 原始提交的，  
第 \_\_\_\_\_ 页， 按条约 19 条修改的(附有说明)，  
第 \_\_\_\_\_ 页 初审单位收到的，  
第 \_\_\_\_\_ 页 初审单位收到的。

☐ 附图， 第 \_\_\_\_\_ 页， 原始提交的。  
第 \_\_\_\_\_ 页\*， 初审单位收到的，  
第 \_\_\_\_\_ 页\*， 初审单位收到的。

☐ 序列表和/或相关表格——参见与序列表有关的补充栏。

3. 修改导致以下内容的删除：

☐ 说明书， 第 \_\_\_\_\_ 页

☐ 权利要求， 第 \_\_\_\_\_ 项

☐ 附图， 第 \_\_\_\_\_ 页， 图 \_\_\_\_\_

☐ 序列表（具体说明） \_\_\_\_\_

☐ 与序列表相关的表格（具体说明） \_\_\_\_\_

4. ☐ 由于本报告附件的(某些)修改，如下所列，被认为超出了原始公开的范围，如补充栏所示，因此本报告是按照没有修改的情况做出的(细则 70.2(c))。

☐ 说明书， 第 \_\_\_\_\_ 页

☐ 权利要求， 第 \_\_\_\_\_ 项

☐ 附图， 第 \_\_\_\_\_ 页， 图 \_\_\_\_\_

☐ 序列表（具体说明） \_\_\_\_\_

☐ 与序列表相关的表格（具体说明） \_\_\_\_\_

\*如果第 4 项适用，一些或全部的文件页可能做出“废除”标记。

专利性国际初步报告

国际申请号

PCT/CN02/00506

V. 按条约 35 (2) 关于新颖性、创造性或工业实用性的推断性意见；支持这种意见的引证和解释

1. 意见

新颖性(N)	权利要求 1-75	是
	权利要求	否
创造性(IS)	权利要求 1-75	是
	权利要求	否
工业实用性(IA)	权利要求 1-75	是
	权利要求	否

2. 引证和解释 (细则 70.7)

检索报告中的各对比文件公开了生物可成型材料的成型方法和成型机构。但是，这些对比文均未公开独立权利要求 1 和 36 中的技术特征：进入挤压腔的粒状物料在相对运动的过程中被碾搓拉伸呈片状后进入成型腔，其能达到的有益效果是：通过改变生物材料成型的变形规律，即先进行延展变形，再进行压缩成型，使得成型的产品具有极好的连接强度，并减少化学粘接剂渗入量。因此，权利要求 1 和 37 具备 PCT 条约 33 (2) - (4) 规定的新颖性和创造性。

权利要求 1-36 和权利要求 38-75 分别是权利要求 1 和 37 的从属权利要求，因此也具备 PCT 条约 33 (2) - (4) 规定的新颖性和创造性。

VII. 国际申请中的某些缺陷

国际申请在形式上或内容上存在下列缺陷:

权利要求 33、35、36、72 和 75 本身是多项从属权利要求, 引用在先的多项从属权利要求, 不符合 PCT 实施细则 6.2 条。